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**From:** Carter, James (IHS/PHX) [James.Carter2@ihs.gov]  
**Sent:** 7/10/2018 11:19:38 PM  
**To:** Rapicavoli, Emmanuelle [Rapicavoli.Emmanuelle@epa.gov]  
**Subject:** FW: HAMP 10% Design Report  
**Attachments:** Hydraulic Analysis Narrative Bundle 2 Reduced.pdf; V31 HAMP 10% Review Comments.docx

Emmanuelle,

I forgot to send to you as well. You had some good comments on the schematic. I will go through those and respond back. Some of your questions may not be addressed yet in this package. I am glad to get to this milestone and look forward to the next.

Thanks,  
James

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**From:** Carter, James (IHS/PHX)  
**Sent:** Tuesday, July 10, 2018 3:11 PM  
**To:** 'Carroll Onsaie' <consae@hopitelecom.com>; Tim Bodell <tbodell@hopiuc.com>; Rea, Brad (IHS/PHX) <Brad.Rea@ihs.gov>; Heintzman, Tom (IHS/PHX) <Tom.Heintzman@ihs.gov>; Litofsky, Alexandra (IHS/PHX) <Alexandra.Litofsky@ihs.gov>; Yazzie, Lydell (IHS/PHX) <Lydell.Yazzie@ihs.gov>  
**Cc:** Matson, Eric (IHS/PHX) <Eric.Matson@ihs.gov>; Hess, Jacob (IHS/PHX) <Jacob.Hess@ihs.gov>; Junes-Harvey, Julianne (IHS/PHX) <Juliane.Junes-Harvey@ihs.gov>  
**Subject:** HAMP 10% Design Report

The draft is done.

Normally IHS would have a full internal review for the project, but as discussed we will do our review concurrently with Hopi Utility Corp.

Due to time limitation, I have not had time to go through how the useful remaining life was calculated in the strategic plan. USDA provided me a spreadsheet for calculating salvage values and I just went with that, but I will get a better grasp on the formula before the final 10% document. I am not sure if getting more salvage value on pipeline for the project with greater construction costs makes sense. I think it does make sense when you compare a pipeline to a treatment plant.

I have attached the 10% Design Report with a hydraulic analysis for 2 alternatives and the comparison of the 2 alternatives. Moving forward we can schedule a meeting to discuss the attached document and comments in person and also incorporate some of the planning, permitting, stakeholders, and communication that will need to take place to move us toward construction. Please provide any comments on the document by July 27<sup>th</sup>.

Thanks,  
James Carter  
District Engineer  
EADO-IHS